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PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(Use as many sheets as necessary)</p>		<p>Application Number: 10/741,824</p>	
		<p>Filing Date: DECEMBER 19, 2003</p>	
		<p>First Named Inventor: LING CHEN, ET AL</p>	
		<p>Group Art Unit: <del>UNKNOWN</del> 2923</p>	
		<p>Examiner Name: <del>UNKNOWN</del> John M. Parker</p>	
		<p>Attorney Docket Number: AMAT/7532/CPI/UB/PJS</p>	
<p>Sheet 1 of 30</p>		<p>Submission Date: March 22, 2004</p>	

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
UMP	A1	US-20030205729 A1	11/08/2003	Basceri, et al.	
	A2	US-20030186495 A1	10/02/2003	Saanila, et al.	
	A3	US-20030173586 A1	09/18/2003	Henderson	
	A4	US-20030168750 A1	09/11/2003	Basceri, et al.	
	A5	US-20030165615 A1	09/04/2003	Aaltonen, et al.	
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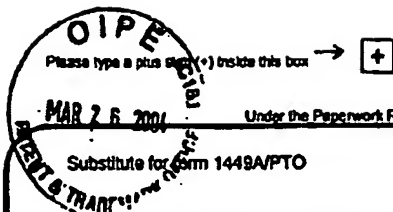
Examiner Initials*	Cite No.	Foreign Patent Document Country Code* Number* Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
UMP	B1	EP 1 170 804 A2 ✓	01/09/2002			X
	B2	EP 1 167 569 A1 ✓	01/02/2002			
	B3	EP 1 146 141 A2 ✓	10/17/2001			
	B4	EP 0 442 490 A1 ✓	02/14/1991			
	B5	EP 0 429 270 A2 ✓	05/29/1991			

Examiner

Date Considered

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PTO/SB/08a (06-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 30

Application Number	10741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JMP	A19	US-20030042630 A1	03/06/2003	Babcoke, et al.	
	A20	US-20030032281 A1	02/13/2003	Werkhoven, et al.	
	A21	US-20030031807 A1	02/13/2003	Elers, et al.	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> -Number <sup>2</sup> -Kind Code <sup>3</sup> (if known)				
JMP	B6	EP 0 344 352 A1 ✓	06/03/1988			
	B7	EP 0 799 641 A2 ✓	10/08/1997			
	B8	DE 198 20 147A1 ✓	07/01/1999			
	B9	DE 198 27 017A1 ✓	01/09/1997			
	B10	CN 1 319 891 (Eng. Abstract Only) ✓	11/09/2001			X

Examiner

Date Considered

9/13/06

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MAR 26 2004

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 3

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

## U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> (if known)			
JMP	A37	US-20020144857 A1	10/10/2002	Chiang, et al.	
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	A39	US-20020135071 A1	09/26/2002	Kang, et al.	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)				
JMP	B11	TW 430970 (Eng. Abstract Only) ✓	04/21/2001			X
	B12	FR 2 692 597 A1 ✓	12/24/1993			
	B13	FR 2 626 110 A1 ✓	07/21/1989			
	B14	GB 2365215 ✓	02/13/2002			
	B15	GB 2 385 727A ✓	05/02/2001			

Examiner

Date Considered

4/13/06

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Substitute for form 1449A/PTO <b>MAR 26 2004</b> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/741,824
		Filing Date	DECEMBER 19, 2003
		First Named Inventor	LING CHEN, ET AL.
		Group Art Unit	UNKNOWN
		Examiner Name	UNKNOWN
		Attorney Docket Number	AMAT/7532/CPI/L/B/PJS
Sheet 4	of 30	Submission Date	

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JmP	A55	US-20020093781 A1	07/18/2002	Bachhofer, et al.	
	A56	US-20020093046 A1	07/18/2002	Moriya, et al.	
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	A63	US-20020076508 A1	06/20/2002	Chiang, et al.	
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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
JmP	B16	JP 64-090524	04/07/1989			
	B17	JP 64-082676 (Eng. Abstract Only)	03/28/1989			X
	B18	JP 64-082671 (Eng. Abstract Only)	03/28/1989			X
	B19	JP 64-082617 (Eng. Abstract Only)	03/28/1989			X
	B20	JP 64-082615 (Eng. Abstract Only)	03/28/1989			X

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MAR 26 2004

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet 5

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPH/B/PJS
Submission Date	

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		Number-Kind Code <sup>2</sup> (if known)			
JMP	A73	US-20020052097 A1	05/02/2002	Park	
	A74	US-20020048880 A1	04/25/2002	Lee	
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		Country Code <sup>3</sup> -Number <sup>3</sup> -Kind Code <sup>2</sup> (if known)				
JMP	B21	JP 64-037832 (Eng. Abstract Only) ✓	02/08/1989			X
	B22	JP 64-009897 (Eng. Abstract Only) ✓	01/13/1989			X
	B23	JP 64-009896 (Eng. Abstract Only) ✓	01/13/1989			X
	B24	JP 64-009895 (Eng. Abstract Only) ✓	01/13/1989			X
	B25	JP 63-266914 (Eng. Abstract Only) ✓	11/02/1988			X

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 6

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT7532/CPV/B/PJS
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UMP	A81	US-20020000598 A1	01/03/2002	Kang, et al.	
	A82	US-20010054769 A1	12/27/2001	Raaijmakers, et al.	
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	A100	US-20010029094 A1	10/11/2001	Moo-Young, et al.	
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	A105	US-20010011526 A1	08/09/2001	Doering, et al.	
	A106	US-20010009695 A1	07/26/2001	Saadia, et al.	
	A107	US-20010009140 A1	07/26/2001	Bondestam, et al.	
	A108	US-20010002280 A1	05/31/2001	Sneh	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
UMP	B26	JP 63-252420 (Eng. Abstract Only) ✓	10/19/1988			X
	B27	JP 63-227007 (Eng. Abstract Only) ✓	09/21/1988			X
	B28	JP 63-222421 (Eng. Abstract Only) ✓	09/16/1988			X
	B29	JP 63-222420 (Eng. Abstract Only) ✓	09/16/1988			X
	B30	JP 63-090833 (Eng. Abstract Only) ✓	04/21/1988			X

Examiner

Date Considered

4/13/06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). \* See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \* Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 7

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CP/L/B/PJS
Submission Date	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
Jme	A109	US-20010000866 A1	05/10/2001	Sneh, et al.	
	A110	US-6,688,271 B2	02/03/2004	Raaijmakers, et al.	
	A111	US-6,660,126 B2	12/09/2003	Nguyen, et al.	
	A112	US-6,632,270 B1	10/14/2003	Ritola, et al.	
	A113	US-6,620,723 B1	09/16/2003	Byun, et al.	
	A114	US-6,607,976 B2	08/19/2003	Chen, et al.	
	A115	US-6,599,572 B2	07/29/2003	Saandia, et al.	
	A116	US-6,585,823 B1	07/01/2003	Van Wijck	
	A117	US-6,548,424 B2	04/15/2003	Putkonen	
	A118	US-6,534,395 B2	03/18/2003	Werkhoven, et al.	
	A119	US-6,511,539 B1	01/28/2003	Raaijmakers, et al.	
	A120	US-6,482,740 B2	11/19/2002	Solinen, et al.	
	A121	US-6,482,733 B2	11/19/2002	Raaijmakers, et al.	
	A122	US-6,482,262 B1	11/19/2002	Elers, et al.	
	A123	US-6,478,872 B1	11/12/2002	Chao, et al.	
	A124	US-6,475,910 B1	11/05/2002	Sneh	
	A125	US-6,475,276 B1	11/05/2002	Elers, et al.	
	A126	US-6,468,924 B2	10/22/2002	Lee, et al.	

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>4</sup> -Number <sup>5</sup> -Kind Code <sup>6</sup> (if known)				
DA	B31	JP 63-085098 (Eng. Abstract Only) ✓	04/15/1988			X
	B32	JP 63-062313 (Eng. Abstract Only) ✓	03/18/1988			X
	B33	JP 62-232919 (Eng. Abstract Only) ✓	10/13/1987			X
	B34	JP 62-171999 (Eng. Abstract Only) ✓	07/28/1987			X
	B35	JP 62-167297 (Eng. Abstract Only) ✓	07/23/1987			X

Examiner

Date Considered

4/13/06

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STATEMENT BY APPLICANT**

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Sheet 8

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JMP	A127	US-6,458,701 B1	10/01/2002	Chen, et al.	
	A128	US-6,452,229 B1	09/17/2002	Kivokapic	
	A129	US-6,451,695 B2	09/17/2002	Sneh	
	A130	US-6,451,119 B2	09/17/2002	Sneh, et al.	
	A131	US-6,447,933 B1	09/10/2002	Wang, et al.	
	A132	US-6,428,859 B1	08/06/2002	Chiang, et al.	
	A133	US-6,426,555 B1	07/30/2002	Hsia	
	A134	US-6,423,619 B1	07/23/2002	Grant, et al.	
	A135	US-6,420,279 B1	07/16/2002	Ono, et al.	
	A136	US-6,420,189 B1	07/16/2002	Lopatin	
	A137	US-6,416,822 B1	07/09/2002	Chiang, et al.	
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	A139	US-6,399,491 B2	06/04/2002	Jeon, et al.	
	A140	US-6,395,650 B1	05/28/2002	Callegari, et al.	
	A141	US-6,391,803 B1	05/21/2002	Kim, et al.	
	A142	US-6,391,785 B1	05/21/2002	Satta, et al.	
	A143	US-6,380,084 B1	04/30/2002	Lim, et al.	
	A144	US-6,379,748 B1	04/30/2002	Bhandari, et al.	

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		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)				
JMP	B36	JP 62-141717 (Eng. Abstract Only) ✓	08/25/1987			X
	B37	JP 62-091495 (w/Eng. Abstract) ✓	04/25/1987			X
	B38	JP 62-069508 (Eng. Abstract Only) ✓	03/30/1987			X
	B39	JP 61-210623 (Eng. Abstract Only) ✓	09/18/1986			X
	B40	JP 61-035847 (Eng. Abstract Only) ✓	02/20/1986			X

Examiner

Date Considered

9/13/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 9

of 30

Application Number

10741,824

Filing Date

DECEMBER 19, 2003

First Named Inventor

LING CHEN, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/7532/CPIL/B/PJS

Submission Date

**U.S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
JMP	A145	US-6,376,353 B1	04/23/2002	Zhou, et al.	
	A146	US-6,372,588 B2	04/16/2002	Kang, et al.	
	A147	US-6,369,430 B1	04/09/2002	Adetutu, et al.	
	A148	US-6,368,854 B1	04/09/2002	Lopatin, et al.	
	A149	US-6,358,829 B2	03/19/2002	Yoon, et al.	
	A150	US-6,355,561 B1	03/12/2002	Sandhu, et al.	
	A151	US-6,348,386 B1	02/19/2002	Gilmer	
	A152	US-6,348,376 B2	02/19/2002	Lim, et al.	
	A153	US-6,342,277 B1	01/29/2002	Sherman	
	A154	US-6,335,280 B1	01/01/2002	Van der Jeugh	
	A155	US-6,333,260 B1	12/25/2001	Kwon, et al.	
	A156	US-6,318,096 B1	11/13/2001	Yitzchaik, et al.	
	A157	US-6,308,218 B1	10/23/2001	Kim, et al.	
	A158	US-6,305,314 B1	10/23/2001	Sneh, et al.	
	A159	US-6,299,294 B1	10/09/2001	Regan	
	A160	US-6,291,878 B1	09/18/2001	Stumborg, et al.	
	A161	US-6,291,283 B1	09/18/2001	Wilk	
	A162	US-6,287,965 B1	09/11/2001	Kang, et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>3</sup> (if known)				
JMP	B41	JP 60-065712A /	04/15/1985			
	B42	JP 58-100419 (Eng. Abstract Only) ✓	06/15/1983			X
	B43	JP 58-098917 (Eng. Abstract Only) ✓	06/13/1983			X
	B44	JP 2002-93804 (w/Eng. Abstract) ✓	03/29/2002			X
	B45	JP 2002-69641 (w/Eng. Abstract) ✓	03/08/2002			X

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4/13/06

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 10

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPV/LB/PJS
Submission Date	

## **U.S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
JMP	A163	US-6,284,846 B1	09/04/2001	Leem	
	A164	US-6,271,148 B1	08/07/2001	Kao et al.	
	A165	US-6,270,572 B1	08/07/2001	Kim, et al.	
	A166	US-6,258,713 B1	07/10/2001	Yu, et al.	
	A167	US-6,248,605 B1	06/19/2001	Harkonen, et al.	
	A168	US-6,238,734 B1	05/29/2001	*Senzaki, et al.	
	A169	US-6,218,298 B1	04/17/2001	Holmks	
	A170	US-6,207,487 B1	03/27/2001	Kim, et al.	
	A171	US-6,207,302 B1	03/27/2001	Suglura, et al.	
	A172	US-6,206,987 B1	03/27/2001	Mak, et al.	
	A173	US-6,203,613 B1	03/20/2001	Gates, et al.	
	A174	US-6,200,893 B1	03/13/2001	Sneh	
	A175	US-6,197,683 B1	03/06/2001	Kang, et al.	
	A176	US-6,197,678 B1	03/06/2001	Yu	
	A177	US-6,174,812 B1	01/16/2001	Hsiung, et al.	
	A178	US-6,174,809 B1	01/16/2001	Kang, et al.	
	A179	US-6,174,377 B1	01/16/2001	Doering, et al.	
	A180	US-6,169,028 B1	01/02/2001	Wang, et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>4</sup> -Number <sup>5</sup> -Kind Code <sup>6</sup> (if known)				
JMP	B46	JP 2002-60944 (w/Eng. Abstract) ✓	02/28/2002			X
	B47	JP 2002-172767 (w/Eng. Abstract) ✓	06/18/2002			X
	B48	JP 2002-187672 (w/Eng. Abstract) ✓	06/11/2002			X
	B49	JP 2001-62244 ✓	03/13/2001			X
	B50	JP 2001-328900 (w/Eng. Abstract) ✓	11/27/2001			X

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 11

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CP/LB/PJS

Submission Date

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JMP	A181	US-6,158,448	12/12/2000	Mohindra et al.	
	A182	US-6,144,060	11/07/2000	Park et al.	
	A183	US-6,143,859	11/07/2000	Leem	
	A184	US-6,140,238	10/31/2000	Kitch	
	A185	US-6,140,237	10/31/2000	Chan et al.	
	A186	US-6,139,700	10/31/2000	Kang et al.	
	A187	US-6,130,147	10/10/2000	Major et al.	
	A188	US-6,124,158	09/26/2000	Dautartas et al.	
	A189	US-6,117,244	09/12/2000	Bang, et al.	
	A190	US-6,113,977	09/05/2000	Solinen et al.	
	A191	US-6,113,771	09/05/2000	Lendau, et al.	
	A192	US-6,110,556	08/29/2000	Bang, et al.	
	A193	US-6,086,677	07/11/2000	Umotoy et al.	
	A194	US-6,084,302	07/04/2000	Sandhu	
	A195	US-6,071,808	06/06/2000	Merchant et al.	
	A196	US-6,062,798	05/16/2000	Muka	
	A197	US-6,051,288	04/18/2000	Zhao et al.	
	A198	US-6,043,177	03/28/2000	Falconer et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code* Number* Kind Code* (if known)				
JMP	B51	JP 2001-313298 (w/Eng. Abstract) ✓	11/09/2001			X
	B52	JP 2001-303251 (w/Eng. Abstract) ✓	10/31/2001			X
	B53	JP 2001-284042 (w/Eng. Abstract) ✓	10/12/2001			X
	B54	JP 2001-254181 (w/Eng. Abstract) ✓	09/18/2001			X
	B55	JP 2001-249972 (w/Eng. Abstract) ✓	09/04/2001			X

Examiner

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Sheet 12

of 30

Application Number

10/741,824

Filing Date

DECEMBER 19, 2003

First Named Inventor

LING CHEN, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/7532/CP/UB/PJS

Submission Date

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code* (if known)			
JMP	A199	US-6,042,852	03/28/2000	Hyun et al.	
	A200	US-6,037,864	03/14/2000	Zhao, et al.	
	A201	US-6,036,773	03/14/2000	Wang et al.	
	A202	US-6,025,627	02/15/2000	Forbes et al.	
	A203	US-6,020,243	02/01/2000	Wallace, et al.	
	A204	US-6,015,917	01/18/2000	Bhandari, et al.	
	A205	US-6,015,590	01/18/2000	Suntola et al.	
	A206	US-6,013,553	01/11/2000	Wallace, et al.	
	A207	US-6,001,669	12/14/1999	Gaines et al.	
	A208	US-5,972,430	10/26/1999	DiMeo, Jr. et al.	
	A209	US-5,947,710	09/07/1999	Cooper, et al.	
	A210	US-5,942,040	08/24/1999	Kim et al.	
	A211	US-5,928,389	07/27/1999	Jevtic	
	A212	US-5,925,574	07/20/1999	Aoki et al.	
	A213	US-5,923,885	07/13/1999	Aoki et al.	
	A214	US-5,923,056	07/13/1999	Lee et al.	
	A215	US-5,916,365	06/29/1999	Sherman	
	A216	US-5,904,565	05/18/1999	Nguyen, et al.	

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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code*+Number*+Kind Code* (if known)				
JMP	B56	JP 2001-220294 (Eng. Abstract Only)	08/14/2001			X
	B57	JP 2001-220287 (Eng. Abstract Only)	08/14/2001			X
	B58	JP 2001-217206 (Eng. Abstract Only)	08/10/2001			X
	B59	JP 2001-189312 (Eng. Abstract Only)	07/10/2001			X
	B60	JP 2001-172763 (Eng. Abstract Only)	06/26/2001			X

Examiner

Date Considered

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This collection of information is required by 37 CFR 1.57 and 1.58. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 13

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CP/LB/PJS
Submission Date	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code* (if known)			
JMP	A217	US-5,882,413	03/16/1999	Beaufieu et al.	
	A218	US-5,882,165	03/16/1999	Maydan et al.	
	A219	US-5,879,459	03/09/1999	Gadgil et al.	
	A220	US-5,886,795	02/02/1999	Wang et al.	
	A221	US-5,866,213	02/02/1999	Foster et al.	
	A222	US-5,858,102	01/12/1999	Tsai	
	A223	US-5,856,219	01/05/1999	Naito et al.	
	A224	US-5,855,880	01/05/1999	Soininen et al.	
	A225	US-5,855,875	01/05/1999	Doering et al.	
	A226	US-5,851,849	12/22/1998	Comizzoli et al.	
	A227	US-5,835,877	11/10/1998	Li et al.	
	A228	US-5,830,270	11/03/1998	McKee et al.	
	A229	US-5,807,792	09/15/1998	Ilg et al.	
	A230	US-5,804,488	09/08/1998	Shih, et al.	
	A231	US-5,801,634	09/01/1998	Young et al.	
	A232	US-5,796,116	08/18/1998	Nakata et al.	
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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code* - Number* - Kind Code* (if known)				
JMP	B61	JP 2001-152339 (Eng. Abstract Only)	06/05/2001			X
	B62	JP 2001-111000	04/20/2001			X
	B63	JP 2001-020075 (Eng. Abstract Only)	01/23/2001			X
	B64	JP 2000-353668 (Eng. Abstract Only)	12/19/2000			X
	B65	JP 2000-340883 (Eng. Abstract Only)	12/08/2000			X

Examiner

Date Considered

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 14

of 30

Application Number	10741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CP1/UB/PJS
Submission Date	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JMP	A235	US-5,749,974	05/12/1998	Habuka et al.	
	A236	US-5,747,113	05/05/1998	Tsal	
	A237	US-5,730,802	03/24/1998	Ishizumi et al.	
	A238	US-5,730,801	03/24/1998	Tepman et al.	
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	A240	US-5,707,880	01/13/1998	Aftergut et al.	
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	A249	US-5,616,181	04/01/1997	Yamamoto et al.	
	A250	US-5,609,689	03/11/1997	Kato et al.	
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	A252	US-5,580,380	12/03/1996	Liu, et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
JMP	B66	JP 2000-319772 (Eng. Abstract Only)	11/21/2000			X
	B67	JP 2000-218445 (Eng. Abstract Only)	08/08/2000			X
	B68	JP 2000-138094 (Eng. Abstract Only)	05/16/2000			X
	B69	JP 2000-087029 (Eng. Abstract Only)	03/28/2000			X
	B70	JP 2000-068072 (Eng. Abstract Only)	03/03/2000			X

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Date Considered

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 15

of 30

Application Number	10741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CP/UB/PJS
Submission Date	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JWP	A253	US-5,540,783	07/30/1998	Eres et al.	
	A254	US-5,532,511	07/02/1996	Nishizawa et al.	
	A255	US-5,527,733	06/18/1996	Nishizawa et al.	
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	A267	US-5,441,703	08/15/1995	Jurgensen	
	A268	US-5,439,876	08/08/1995	Graf et al.	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
JWP	B71	JP 2000-058777 (Eng. Abstract Only)	02/25/2000			X
	B72	JP 2000-031387 (Eng. Abstract Only)	01/28/2000			X
	B73	JP 11-269652 (Eng. Abstract Only)	10/05/1999			X
	B74	JP 10-308283	11/17/1998			X
	B75	JP 10-190128 (Eng. Abstract Only)	07/21/1998			X

Examiner

Date Considered

4/13/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 16

of 30

Application Number	10741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JMP	A271	US-5,374,570	12/20/1994	Nasu et al.	
	A272	US-5,348,911	09/20/1994	Jurgensen et al.	
	A273	US-5,338,389	08/16/1994	Nishizawa et al.	
	A274	US-5,336,324	08/09/1994	Stall et al.	
	A275	US-5,330,810	07/19/1994	Eres et al.	
	A276	US-5,318,793	05/31/1994	Wallace et al.	
	A277	US-5,316,815	05/31/1994	Copel	
	A278	US-5,311,055	05/10/1994	Goodman et al.	
	A279	US-5,308,688	04/26/1994	Izum	
	A280	US-5,300,188	04/05/1994	Kitahara et al.	
	A281	US-5,296,403	03/22/1994	Nishizawa et al.	
	A282	US-5,294,286	03/15/1994	Nishizawa et al.	
	A283	US-5,280,748	03/01/1994	Knuutila et al.	
	A284	US-5,280,609	03/01/1994	Horike, et al.	
	A285	US-5,268,296	02/15/1994	Sato et al.	
	A286	US-5,281,274	01/25/1994	Yoder	
	A287	US-5,278,435	01/11/1994	Van Hove et al.	
	A288	US-5,270,247	12/14/1993	Sakuma et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>2</sup> -Number <sup>2</sup> -Kind Code <sup>2</sup> (if known)				
JMP	B76	JP 10-188840 (Eng. Abstract Only) ✓	07/21/1998			X
	B77	JP 09-283681 (Eng. Abstract Only) ✓	11/11/1997			X
	B78	JP 09-260788 (Eng. Abstract Only) ✓	10/03/1997			X
	B79	JP 08-264530 ✓	10/11/1996			
	B80	JP 08-245291 (Eng. Abstract Only) ✓	09/24/1996			X

Examiner

Date Considered

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 17

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

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		Number-Kind Code <sup>2</sup> (if known)			
Jmp	A289	US-5,259,881	11/09/1993	Edwards, et al.	
	A290	US-5,256,244	10/26/1993	Ackerman	
	A291	US-5,254,207	10/19/1993	Nishizawa et al.	
	A292	US-5,250,148	10/05/1993	Nishizawa et al.	
	A293	US-5,246,538	09/21/1993	Nishizawa et al.	
	A294	US-5,234,561	08/10/1993	Randhawa et al.	
	A295	US-5,225,386	07/08/1993	Yoder	
	A288	US-5,205,077	04/27/1993	Wittstock	
	A297	US-5,188,718	02/16/1993	Tepman et al.	
	A298	US-5,173,474	12/22/1992	Connell, et al.	
	A299	US-5,168,092	11/24/1992	Mochizuki et al.	
	A300	US-5,130,269	07/14/1992	Kitahara et al.	
	A301	US-5,091,320	02/25/1992	Aspnes et al.	
	A302	US-5,085,885	02/04/1992	Foley et al.	
	A303	US-5,082,798	01/21/1992	Arimoto	
	A304	US-5,028,565	07/02/1991	Chang, et al.	
	A305	US-5,013,683	05/07/1991	Petroff et al.	
	A306	US-5,000,113	03/18/1991	Wang et al.	

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		Country Code <sup>2</sup> -Number <sup>2</sup> -Kind Code <sup>2</sup> (if known)				
Jmp	B81	JP 08-181076 (Eng. Abstract Only) ✓	07/12/1996			X
	B82	JP 07-086269 (Eng. Abstract Only) ✓	03/13/1995			X
	B83	JP 07-070752 (Eng. Abstract Only) ✓	03/14/1995			X
	B84	JP 08-291048 ✓	10/18/1994			
	B85	JP 06-252057 (Eng. Abstract Only) ✓	09/09/1994			X

Examiner

Date Considered

4/13/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 18

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPH/B/PJS
Submission Date	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JMP	A289	US-5,259,881	11/09/1993	Edwards, et al.	
	A290	US-5,256,244	10/26/1993	Ackerman	
	A291	US-5,254,207	10/19/1993	Nishizawa et al.	
	A292	US-5,250,148	10/05/1993	Nishizawa et al.	
	A293	US-5,246,538	09/21/1993	Nishizawa et al.	
	A294	US-5,234,561	08/10/1993	Randhawa et al.	
	A295	US-5,225,366	07/06/1993	Yoder	
	A296	US-5,205,077	04/27/1993	Wittstock	
	A297	US-5,186,718	02/16/1993	Tepman et al.	
	A298	US-5,173,474	12/22/1992	Connell, et al.	
	A299	US-5,166,092	11/24/1992	Mochizuki et al.	
	A300	US-5,130,269	07/14/1992	Kitahara et al.	
	A301	US-5,091,320	02/25/1992	Aspnes et al.	
	A302	US-5,085,885	02/04/1992	Foley et al.	
	A303	US-5,082,798	01/21/1992	Arimoto	
	A304	US-5,028,565	07/02/1991	Chang, et al.	
	A305	US-5,013,683	05/07/1991	Petroff et al.	
	A308	US-5,000,113	03/19/1991	Wang et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†*
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
JMP	B86	JP 06-230421 (Eng. Abstract Only) ✓	08/19/1994			X
	B87	JP 06-224138 (Eng. Abstract Only) ✓	08/12/1994			X
	B88	JP 06-222388 (Eng. Abstract Only) ✓	08/12/1994			X
	B89	JP 06-196809 (Eng. Abstract Only) ✓	07/15/1994			X
	B90	JP 07-300649 (w/Eng. Abstract) ✓	11/14/1995			X

Examiner

Date Considered

4/13/06

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 19

of 30

Application Number	10741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT7532/CPIL/B/PJS
Submission Date	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JMD	A307	US-4,993,357	02/19/1991	Scholz	
	A308	US-4,975,252	12/04/1990	Nishizawa et al.	
	A309	US-4,960,720	10/02/1990	Shimbo	
	A310	US-4,951,601	08/28/1990	Maydan, et al.	
	A311	US-4,931,132	06/05/1990	Aspnes et al.	
	A312	US-4,927,670	05/22/1990	Erbil	
	A313	US-4,917,558	04/17/1990	Stark et al.	
	A314	US-4,876,218	10/24/1989	Pessa et al.	
	A315	US-4,861,417	08/29/1989	Mochizuki et al.	
	A316	US-4,859,627	08/22/1989	Sunakawa	
	A317	US-4,859,625	08/22/1989	Nishizawa et al.	
	A318	US-4,845,049	07/04/1989	Sunakawa	
	A319	US-4,840,921	06/20/1989	Matsumoto	
	A320	US-4,838,993	06/13/1989	Aoki et al.	
	A321	US-4,838,983	06/13/1989	Schumaker et al.	
	A322	US-4,834,831	05/30/1989	Nishizawa et al.	
	A323	US-4,829,022	05/09/1989	Kobayashi et al.	
	A324	US-4,813,846	03/21/1989	Helms	
	A325	US-4,806,321	02/21/1989	Nishizawa et al.	
	A326	US-4,767,494	08/30/1988	Kobayashi et al.	
	A327	US-4,488,487	12/04/1984	Skarp	
	A328	US-4,413,022	11/01/1983	Suntola et al.	
	A329	US-4,389,973	06/28/1983	Suntola et al.	
	A330	US-4,058,430	11/15/1977	Suntola et al.	

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4/13/06



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 20

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T‡
		Country Code* Number* Kind Code* (if known)				
Chm	B91	JP 08-177381 (Eng. Abstract Only)	06/24/1994			X
	B92	JP 08-132238 (Eng. Abstract Only)	05/13/1994			X
	B93	JP 08-045606 (Eng. Abstract Only)	02/18/1994			X
	B94	JP 05-343685 (Eng. Abstract Only)	12/24/1993			X
	B95	JP 05-343327 (Eng. Abstract Only)	12/24/1993			X
	B96	JP 05-304334 (Eng. Abstract Only)	11/16/1993			X
	B97	JP 05-291152 (Eng. Abstract Only)	11/05/1993			X
	B98	JP 05-283336 (Eng. Abstract Only)	10/29/1993			X
	B99	JP 05-270997 (Eng. Abstract Only)	10/19/1993			X
	B100	JP 05-251339 (Eng. Abstract Only)	09/28/1993			X
	B101	JP 05-235047 (Eng. Abstract Only)	09/10/1993			X
	B102	JP 05-234899 (Eng. Abstract Only)	09/10/1993			X
	B103	JP 05-206036 (Eng. Abstract Only)	08/13/1993			X
	B104	JP 05-186295 (Eng. Abstract Only)	07/27/1993			X
	B105	JP 05-182906 (Eng. Abstract Only)	07/23/1993			X
	B106	JP 05-175145 (Eng. Abstract Only)	07/13/1993			X
	B107	JP 05-175143 (Eng. Abstract Only)	07/13/1993			X
	B108	JP 05-160152 (Eng. Abstract Only)	06/25/1993			X
	B109	JP 05-102189 (Eng. Abstract Only)	04/23/1993			X
	B110	JP 05-074724 (Eng. Abstract Only)	03/26/1993			X
	B110	JP 05-074717 (Eng. Abstract Only)	03/26/1993			X
	B112	JP 05-047688 (Eng. Abstract Only)	02/26/1993			X
	B113	JP 05-047666 (Eng. Abstract Only)	02/26/1993			X
	B114	JP 05-047665 (Eng. Abstract Only)	02/26/1993			X
	B115	JP 05-029228 (Eng. Abstract Only)	02/05/1993			X
	B116	JP 04-328874 (Eng. Abstract Only)	11/17/1992			X
	B117	JP 04-325500 (Eng. Abstract Only)	11/13/1992			X
	B118	JP 04-291916 (Eng. Abstract Only)	10/16/1992			X

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Date Considered

4/13/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 21

of 30

Application Number	10741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
JMP	B119	JP 04-285167 (Eng. Abstract Only)	10/09/1992			X
	B120	JP 04-273120 (Eng. Abstract Only)	09/29/1992			X
	B122	JP 04-260698 (Eng. Abstract Only)	09/16/1992			X
	B123	JP 04-212411 (Eng. Abstract Only)	08/04/1992			X
	B124	JP 04-186824 (Eng. Abstract Only)	07/03/1992			X
	B125	JP 04-175299 (Eng. Abstract Only)	06/23/1992			X
	B126	JP 04-162418 (Eng. Abstract Only)	06/05/1992			X
	B127	JP 04-132681 (Eng. Abstract Only)	05/06/1992			X
	B128	JP 04-132214 (Eng. Abstract Only)	05/06/1992			X
	B129	JP 04-111418 (Eng. Abstract Only)	04/13/1992			X
	B130	JP 04-100292 (Eng. Abstract Only)	04/02/1992			X
	B131	JP 04-031396 (w/Eng. Abstract)	02/03/1992			X
	B132	JP 04-031391 (Eng. Abstract Only)	02/03/1992			X
	B133	JP 04-151822 (Eng. Abstract Only)	05/25/1992			X
	B134	JP 03-286531	12/17/1991			
	B135	JP 03-286522 (Eng. Abstract Only)	12/17/1991			X
	B136	JP 03-234025 (Eng. Abstract Only)	10/18/1991			X
	B137	JP 03-208885 (Eng. Abstract Only)	09/12/1991			X
	B138	JP 03-185716 (Eng. Abstract Only)	08/13/1991			X
	B139	JP 03-070124 (Eng. Abstract Only)	03/26/1991			X
	B140	JP 03-048421	03/01/1991			
	B141	JP 03-044967 (Eng. Abstract Only)	02/26/1991			X
	B142	JP 03-023289 (Eng. Abstract Only)	01/31/1991			X
	B143	JP 03-023294 (Eng. Abstract Only)	01/31/1991			X
	B144	JP 03-022569 (Eng. Abstract Only)	01/30/1991			X
	B145	JP 03-018211 (Eng. Abstract Only)	01/28/1991			X
	B146	JP 02-304916 (Eng. Abstract Only)	12/18/1990			X
	B147	JP 02-283084 (Eng. Abstract Only)	11/20/1990			X

Examiner

Date Considered

4/13/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 22

of 30

Application Number	10741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

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Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code‡-Number§-Kind Code¶ (if known)				
JMP	B148	JP 02-264491 (Eng. Abstract Only)	10/29/1990			X
	B149	JP 02-246181 (Eng. Abstract Only)	10/01/1990			X
	B150	JP 02-230722 (Eng. Abstract Only)	09/13/1990			X
	B151	JP 02-230690 (Eng. Abstract Only)	09/13/1990			X
	B152	JP 02-203517 (Eng. Abstract Only)	08/13/1990			X
	B153	JP 02-186092 (Eng. Abstract Only)	08/02/1990			X
	B154	JP 02-172895 (Eng. Abstract Only)	07/04/1990			X
	B155	JP 02-162717 (Eng. Abstract Only)	06/22/1990			X
	B156	JP 02-120913 (Eng. Abstract Only)	05/18/1990			X
	B157	JP 02-106822 (Eng. Abstract Only)	04/18/1990			X
	B158	JP 02-074587 (Eng. Abstract Only)	03/14/1990			X
	B159	JP 02-074029 (Eng. Abstract Only)	03/14/1990			X
	B160	JP 02-063115 (Eng. Abstract Only)	03/02/1990			X
	B161	JP 02-017634 (Eng. Abstract Only)	01/22/1990			X
	B162	JP 02-014513 (Eng. Abstract Only)	01/18/1990			X
	B163	JP 02-012814 (Eng. Abstract Only)	01/17/1990			X
	B164	JP 01-313927 (Eng. Abstract Only)	12/19/1989			X
	B165	JP 01-305894 (Eng. Abstract Only)	12/11/1989			X
	B166	JP 01-303770 (Eng. Abstract Only)	12/07/1989			X
	B167	JP 01-296873 (Eng. Abstract Only)	11/30/1989			X
	B168	JP 01-290222 (Eng. Abstract Only)	11/22/1989			X
	B169	JP 01-290221 (Eng. Abstract Only)	11/22/1989			X
	B170	JP 01-272108 (Eng. Abstract Only)	10/31/1989			X
	B171	JP 01-270593 (Eng. Abstract Only)	10/27/1989			X
	B172	JP 01-264218 (Eng. Abstract Only)	10/20/1989			X
	B173	JP 01-245512 (Eng. Abstract Only)	09/29/1989			X
	B174	JP 01-236857 (Eng. Abstract Only)	09/21/1989			X
	B175	JP 01-154511 (Eng. Abstract Only)	06/16/1989			X

Examiner

Date Considered

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 23

of 30

Application Number	10741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code <sup>1</sup> , Number <sup>2</sup> , Kind Code <sup>3</sup> (if known)				
JMT	B176	JP 01-143233 (Eng. Abstract Only),	06/05/1989			X
	B177	JP 01-143221 (w/Eng. Abstract) ✓	06/05/1989			X
	B178	JP 01-117017 (w/Eng. Abstract) ✓	05/09/1989			X
	B179	JP 01-103996 (Eng. Abstract Only) ✓	04/21/1989			X
	B180	JP 01-103982 (Eng. Abstract Only) ✓	04/21/1989			X
	B181	WO 99/13504 ✓	03/18/1999			
	B182	WO 99/41423 ✓	08/19/1999			
	B183	WO 99/29924 ✓	06/17/1999			
	B184	WO 98/51838 ✓	11/19/1998			
	B185	WO 98/06889 ✓	02/19/1998			
	B186	WO 96/18756 ✓	08/20/1996			
	B187	WO 96/17107 ✓	06/06/1996			
	B188	WO 93/02111 ✓	02/04/1993			
	B189	WO 91/10510 ✓	07/25/1991			
	B190	WO 90/02216 ✓	03/08/1990			
	B191	WO 02/43115 A2 ✓	05/30/2002			
	B192	WO 02/27063 A2 ✓	04/04/2002			
	B193	WO 02/09167 A2 ✓	01/31/2002			
	B194	WO 01/82390 A1 ✓	11/01/2001			
	B195	WO 01/68832 A2 ✓	09/13/2001			
	B196	WO 01/40541 A1 ✓	06/07/2001			
	B197	WO 01/36702 A1 ✓	05/25/2001			
	B198	WO 01/29893 A1 ✓	04/26/2001			
	B199	WO 01/29891 A1 ✓	04/26/2001			
	B200	WO 01/25502 A1 ✓	04/12/2001			
	B201	WO 01/17692 A1 ✓	03/15/2001			
	B202	WO 01/15220 ✓	03/01/2001			
	B203	WO 01/29280 A1 ✓	04/26/2001			

Examiner

Date Considered

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 24

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
JMD	B204	WO 01/27347 A1 /	04/19/2001			
	B205	WO 01/27346 A1 /	04/19/2001			
	B206	WO 01/15220 A1 /	03/01/2001			
	B207	WO 00/70874 /	11/23/2000			
	B208	WO 00/11721 /	03/02/2000			
	B209	WO 00/79576 A1 /	12/28/2000			
	B210	WO 00/79019 A1 /	12/28/2000			
	B211	WO 00/63957 A1 /	10/26/2000			
	B212	WO 00/54320 A1 /	09/14/2000			
	B213	WO 00/16377 A2 /	03/23/2000			
	B214	WO 00/15881 A2 /	03/23/2000			
	B215	WO 00/15885 A1 /	03/23/2000			
	B216	WO 02/45871 A1 /	06/13/2002			
	B217	WO 02/45167 A2 /	06/06/2002			
	B218	WO 02/01628 A2 /	01/03/2002			
	B219	WO 02/67319 A2 /	08/29/2002			
	B220	WO 98/51838 A1 /	11/19/1998			
	B221	JP 2000-178735 (w/Eng. Abstract)	08/27/2000			X
	B222	WO 99/01595 A1 /	01/14/1999			
	B223	WO 96/17107 A1 /	06/06/1996			
	B224	WO 02/08485 A2 /	01/31/2002			
	B225	WO 99/65064 A1 /	12/16/1999			

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<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/741,824		
		Filing Date	DECEMBER 19, 2003		
		First Named Inventor	LING CHEN, ET AL.		
		Group Art Unit	UNKNOWN 2823		
		Examiner Name	UNKNOWN John Parker		
		Attorney Docket Number	AMAT/7532/CPII/UB/PJS		
Sheet	25	of	30	Submission Date	

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
OMP	C1	OHBA, ET AL., "Thermal Decomposition of Methylhydrazine and Deposition Properties of CVD TiN Thin Films", Conference Proceedings, Advanced Metallization for ULSI Applications in 1993 (1994), pp. 143-149.	
	C2	SCHEPER, ET AL., "Low-temperature deposition of titanium nitride films from dialkylhydrazine-based precursors", Materials Science in Semiconductor Processing 2 (1999), pp. 149-157.	
	C3	SUZUKI, ET AL., "A 0.2- $\mu$ m contact filling by 450°C-hydrazine-reduced TiN film with low resistivity", IEDM 92-979, pp. 11.8.1 - 11.8.3 (1992)	
	C4	SUZUKI, ET AL., "LPCVD-TiN Using Hydrazine and TiCl <sub>4</sub> ", VMIC Conference (June 8-9, 1993), pp. 418-423.	
	C5	IBM Tech. Disc. Bull. "Knowledge-Based Dynamic Scheduler in Distributed Computer Control, (June 1990), pp. 80-84.	
	C6	IBM Tech. Disc. Bull. "Multiprocessor and Multitasking Architecture for Tool Control of the Advanced via Inspection Tools" (May 1992), pp. 190-191.	
	C7	MCGEACHIN, S., "Synthesis and properties of some $\beta$ -diketimines derived from acetylacetone, and their metal complexes", Canadian J. of Chemistry, Vol. 46 (1968), pp.1903-1912.	
	C8	SOLANKI, ET AL., "Atomic Layer deposition of Copper Seed Layers", Electrochemical and Solid State Letters, 3(10) (2000), pp. 479-480.	
	C9	YANG, ET AL. "Atomic Layer Deposition of Tungsten Film from WF <sub>6</sub> /B <sub>2</sub> H <sub>6</sub> :Nucleation Layer for Advanced Semiconductor Device," Conference Proceedings ULSI XVII (2002) Materials Research Society.	
	C10	KUKLI, ET AL. "Tailoring the Dielectric Properties of HfO <sub>2</sub> -Ta <sub>2</sub> O <sub>5</sub> Nanolaminates," Applied Physics Letters, Vol. 68, No. 26, June 24, 1996; pp. 3737-9.	
	C11	KUKLI, ET AL. "Atomic Layer Epitaxy Growth of Tantalum Oxide Thin Films from Ta(OC <sub>2</sub> H <sub>5</sub> ) <sub>5</sub> and H <sub>2</sub> O," Journal of the Electrochemical Society, Vo. 142, No. 5, May 1995: pp. 1670-5.	
✓	C12	KUKLI, ET AL. "Properties of Ta <sub>2</sub> O <sub>5</sub> -Based Dielectric Nanolaminates Deposited by Atomic Layer Epitaxy," Journal of Electrochemical Society, Vol. 144, No. 1, Jan. 1997; pp. 300-6.	

Examiner

Date Considered 4/23/07

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/741,824
		Filing Date	DECEMBER 19, 2003
		First Named Inventor	LING CHEN, ET AL.
		Group Art Unit	UNKNOWN
		Examiner Name	UNKNOWN
		Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Sheet 26	of 30	Submission Date	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
UMP	C13	KUKLI, ET AL. "In Situ Study of Atomic Layer Epitaxy Growth on Tantalum Oxide Thin Films form Ta(OC <sub>2</sub> H <sub>5</sub> ) <sub>5</sub> and H <sub>2</sub> O," Applied Surface Science, Vol. 112, March 1997, pp. 236-42.	
	C14	KUKLI, ET AL. "Properties of (Nb <sub>1-x</sub> Ta <sub>x</sub> ) <sub>2</sub> O <sub>5</sub> Solid Solutions and (Nb <sub>1-x</sub> Ta <sub>x</sub> ) <sub>2</sub> O <sub>5</sub> ZrO <sub>2</sub> Nanolaminates Grown by Atomic Layer Epitaxy," 1997; p. 785-93.	
	C15	EISENBRAUM, ET AL. "Atomic Layer Deposition (ALD) of Tantalum-based Materials for Zero Thickness Copper Barrier Applications," Proceedings of the IEEE 2001 International Interconnect Technology Conference 2001.	
	C16	CLARK-PHELPS, ET AL. "Engineered Tantalum Aluminate and Hafnium Aluminate ALD Films for Ultrathin Dielectric Films with Improved Electrical and Thermal Properties," Mat. Res. Soc. Symp. Proc. Vol. 670 (2001).	
	C17	ROSSNAGEL, ET AL. "Plasma-enhanced Atomic Layer Deposition of Ta and Ti for Interconnect Diffusion Barriers," J. Vacuum Sci. & Tech. B., Vol. 18, No. 4 (July 2000), pp. 2016-20.	
	C18	BADER, ET AL., "Integrated Processing Equipment", Solid State Technology, Cowan Pub., Vol. 33, No. 5 (May 1, 1990), pp. 149-154.	
	C19	CHOI, ET AL., "The effect of annealing on resistivity of low pressure chemical vapor deposited titanium diboride", J. Appl. Phys. 69(11) (June 1, 1991), pp. 7853-7861	
	C20	CHOI, ET AL., "Stability of TiB <sub>2</sub> as a Diffusion Barrier on Silicon", J. Electrochem. Soc. 138(10) (October 1991), pp. 3062-3067.	
	C21	DAN MAYDAN, "Cluster Tools for Fabrication of Advanced Devices" Jap. J. of Applied Physics, Extended Abstracts, 22 <sup>nd</sup> Conference Solid State Devices and Materials (1990), pp. 849 - 852.	
	C22	KATHERINE DERBYSHIRE "Applications of Integrated Processing", Solid State Technology, US, Cowan Pub., Vol 37, No. 12 (December 1, 1994), pp. 45-47	
	C23	KITIGAWA, ET AL., "Hydrogen-mediated low temperature epitaxy of Si in plasma-enhanced chemical vapor deposition", Applied Surface Science (2000), pp. 30-34	
✓	C24	J.W. KLAUS, ET AL., "Atomically controlled growth of tungsten and tungsten nitride using sequential surface reactions", Applied Surface Science 162-163, 2000, pp. 479-491.	

Examiner

Date Considered

4/15/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 27

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPU/B/PJS
Submission Date	

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
Jmp	C25	M. RITALA, ET AL., "Perfectly Conformal TiN and Al <sub>2</sub> O <sub>3</sub> Films Deposited by Atomic Layer Deposition", Chemical Vapor Deposition, ISSN 0948-1807, CVDEFX, Vol. 5, January 1999, No.1, pgs 7-9.	
	C26	L. NIINISTO, ET AL., "Synthesis of oxide thin films and overlayers by atomic layer epitaxy for advanced applications", Materials Science and Engineering B41, 1996, pgs 23-29.	
	C27	M. BALOG, ET AL., "Chemical Vapor Deposition and Characterization of HfO <sub>2</sub> Films From Organo-Hafnium Compounds", Thin Solid Films, 41, 1977, pgs 247-259.	
	C28	Y. OHSHITA, ET AL., "HfO <sub>2</sub> growth by low-pressure chemical vapor deposition using the Hf(N(C <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> )/O <sub>2</sub> gas system", Journal of Crystal Growth 233, 2001, pgs 292-297.	
	C29	LEE, ET AL., "Pulsed nucleation for ultra-high aspect ratio tungsten plugfill", Novellus Systems, Inc. (2001), pp. 1-2.	
	C30	MIKKO RITALA, ET AL. "Development of Crystallinity and Morphology in Hafnium Dioxide Thin Films Grown by Atomic Layer Epitaxy", 1994 Thin Solid Films, 250 Pages 72-80.	
	C31	MIKKO RITALA, "Thesis. Ann. Acad. Sci. Fenn. Ser. AII" Chemica, 257, May 1994 Pages 1-48.	
	C32	PCT International Search Report for PCT/US02/28884, September 23, 2003 (AMAT/5350.PC).	
	C33	HULTMAN, ET AL., "Review of the thermal and mechanical stability of TiN-based thin films", Zeitschrift Fur Metallkunde, 90(10) (Oct. 1999), pp. 803-813.	
	C34	KLAUS, ET AL., "Atomic Layer Deposition of SiO <sub>2</sub> Using Catalyzed and Uncatalyzed Self-Limiting Surface Reactions", Surface Review & Letters, 6(3&4) (1999), pp. 435-448.	
	C35	YAMAGUCHI, ET AL., "Atomic-layer chemical-vapor-deposition of silicon dioxide films with extremely low hydrogen content", Appl. Surf. Sci., Vol. 130-132 (1998), pp: 202-207.	
	C36	GEORGE, ET AL., "Surface Chemistry for Atomic Layer Growth", J. Phys. Chem., Vol. 100 (1996), pp. 13121-131.	

Examiner

Date Considered

4/17/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 28

of 30

Application Number	10/741,824
Filing Date	DECEMBER 19, 2003
First Named Inventor	LING CHEN, ET AL.
Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	AMAT/7532/CPI/LB/PJS
Submission Date	

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
OMP	C37	GEORGE, ET AL., "Atomic layer controlled deposition of SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> using ABAB...binary reaction sequence chemistry", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 460-467.	
	C38	WISE, ET AL., "Diethyldiethoxysilane as a new precursor for SiO <sub>2</sub> growth on silicon", <i>Mat. Res. Soc. Symp. Proc.</i> , Vol. 334 (1994), pp. 37-43.	
	C39	NIINISTO, ET AL., "Synthesis of oxide thin films and overlayers by atomic layer epitaxy for advanced applications", <i>Mat. Sci. &amp; Eng.</i> , Vol. B41 (1996), pp. 23-29.	
	C40	MIN, ET AL., "Atomic layer deposition of TiN thin films by sequential introduction of Ti precursor and NH <sub>3</sub> /sub3", <i>Symp.: Advanced Interconnects and Contact Materials and Processes for Future Integrated Circuits</i> (Apr. 13-16, 1998), pp. 337-342.	
	C41	MIN, ET AL., "Metal-Organic Atomic-Layer Deposition of Titanium-Silicon-Nitride Films", <i>Applied Physics Letters</i> , American Inst. Of Physics, Vol 75(11) (Sept. 13, 1999).	
	C42	MARTENSSON, ET AL., "Atomic Layer Epitaxy of Copper on Tantalum", <i>Chemical Vapor Deposition</i> , 3(1) (Feb. 1, 1997), pp. 45-50.	
	C43	RITALA, ET AL. "Atomic Layer Epitaxy Growth of TiN Thin Films", <i>J. Electrochem. Soc.</i> , 142(8) (Aug. 1995), pp. 2731-737.	
	C44	ELERS, ET AL., "NbC15 As A Precursor In Atomic Layer Epitaxy", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 468-474.	
	C45	LEE, "The Preparation of Titanium-Based Thin Film by CVD Using Titanium Chlorides as precursors", <i>Chemical Vapor Deposition</i> , 5(2) (Mar. 1999), pp. 69-73.	
	C46	MARTENSSON, ET AL., "Atomic Layer Epitaxy of Copper, Growth & Selectivity in the Cu (II)-2,2,6,6-Tetramethyl-3, 5-Heptanedion ATE/H <sub>2</sub> Process", <i>J. Electrochem. Soc.</i> , 145(8) (Aug. 1998), pp. 2926-2931.	
	C47	MIN, ET AL., "Chemical Vapor Deposition of Ti-Si-N Films with Alternating Source Supply", <i>Mat., Res. Soc. Symp. Proc.</i> , Vol. 564 (Apr. 5, 1999), pp. 207-210.	
	C48	BEDAIR, "Atomic Layer Epitaxy Deposition Processes", <i>J. Vac. Sci. Technol.</i> 12(1) (Jan/Feb. 1994).	

Examiner

Date Considered

4/13/06

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 29

of

30

Application Number

1Q741,824

Filing Date

DECEMBER 19, 2003

First Named Inventor

LING CHEN, ET AL.

Group Art Unit

UNKNOWN

Examiner Name

UNKNOWN

Attorney Docket Number

AMAT/7532/CPI/LB/PJS

Submission Date

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
Jmf	C49	YAMAGA, ET AL., "Atomic Layer Epitaxy Of ZnS By A New Gas Supplying System In A Low-Pressure Metalorganic Vapor Phase Epitaxy", <i>J. of Crystal Growth</i> 117 (1992), pp. 152-155.	
	C50	United States Patent Application 10/762,764 filed January 22, 2004 (AMAT/4714.C1).	
	C51	United States Patent Application 10/418,728 filed April 18, 2003 (AMAT/4714.P2).	
	C53	United States Patent Application 09/678,266 filed October 3, 2000 (AMAT/4714.P1).	
	C53	United States Patent Application 09/625,336 filed July 25, 2000 (AMAT/4714.D1).	
	C54	RITALA, ET AL. "Surface Roughness Reduction in Atomic Layer Epitaxy Growth of Titanium Dioxide Thin Films," <i>Thin Solid-Films</i> , Vol. 249 No. 2 September 15, 1994, pp. 155-62.	
	C55	RITALA, ET AL. "Atomic Force Microscopy Study of Titanium Dioxide Thin Films Grown by Atomic Layer Epitaxy," <i>Thin Solid Films</i> , Vol. 228, No. 1-2 May 15, 1993, pp. 32-35.	
	C56	RITALA, ET AL. "Growth of Titanium Dioxide Thin Films by Atomic Layer Epitaxy," <i>Thin Solid Films</i> , Vol. 225, No. 1-2 March 25, 1993, p. 288-95.	
	C57	RITALA, ET AL. "Effects of Intermediate Zinc Pulses on Properties on TiN and NbN Films by Atomic Layer Epitaxy," <i>Applied Surface Science</i> , Vol. 120, No. 3-4 December 1997, pp. 199-212.	
	C58	RITALA, ET AL. "Atomic Layer Epitaxy Growth of TiN Thin Films from TiI <sub>4</sub> and NH <sub>3</sub> ," <i>Journal Electrochemical Society</i> , Vol. 145, No. 8 August 1998, pp. 2914-20.	
	C59	MARTENSSON, ET AL. "Use of Atomic Layer Epitaxy for Fabrication of Si/TiN/Cu Structures," <i>Journal Vacuum Science and Technology B</i> , Vol. 17, No. 5 September 1999, pp. 2122-2128.	
	C60	Proceedings of the ICEEE 1998 International Interconnect Technology Conference - San Francisco, California, June 1-3, 1998.	

Examiner

Date Considered

4/13/06

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